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18 March 1974

MEMORANDUM FOR THE RECORD

SUBJECT: Trip Report 4-14 March 1974

The purpose of this trip was to conduct tests on a prototype polycarbonate helmet at Brooks AFB, Texas, Davis Monthan AFB, Arizona, and

2. Brooks AFB, 5-6 March 74

On 5 March 74 the undersigned was joined by

Dr.'s William Robertson and Richardson, USAF School of Aviation Medicine, to establish protocol for chamber flight tests on the polycarbonate helmet. Purpose of the test was to determine the amount of residual carbon dioxide (CO2) in the helmet. Ground level tests were conducted on 5 March. On 6 March additional testing was conducted at ground level, simulated altitudes of 8,000, 18,000, and 29,000 feet with no significant changes noted at the various altitudes. As there was no baseline established for standard pressure-suit helmets, a similar test was conducted on the S-1010 full-pressure suit helmet with almost identical results. Test reports will be forwarded to this office by Dr. Robertson as soon as they are available.

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USAF review(s) completed.

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	3. Davis Monthan AFB, 7-9 March 74	
	The personnel of the Physiological Support Division were shown and briefed on the prototype helmet. Comments	
	were received regarding apparent ease of maintenance.	
	Available U-2 pilots of the 349th SRS were given the opportunity to try on the helmet and relate their con-	
	structive criticisms. Most all agreed there was great potential for this new approach and concept.	
25X1	4. 11-13 March 1974	
25X1	was briefed on the prototype helmet and	
	was favorably impressed with the new concept. Project pilots tried on the helmet with the pressure suit and	
	evaluated it for comfort and visual field. The complete assembly was evaluated in the cockpit to determine if	
	vision was adequate to see all required panels. Ad- ditionally, chamber flights were accomplished by	
25X1	and the undersigned to determine com-	
	fort in the pressurized state. The concensus of opinions was that the new approach is good and would be well re-	
	ceived. However, additional modification would have to be made before it would be an acceptable flight item.	
	5. The prototype helmet will be discussed and	
	shown at the Life Support Conference in the Surgeon General's Office on 19-20 March 74.	
	6. The undersigned also visited for an orientation visit.	25X

CONCURRENCE AND/OR COMMENTS

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Date

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